



Solving your relay requirements since 1922

Amperite Co.  
567 52nd Street  
P.O. Box 329  
West New York, NJ 07093  
(800) 752-2329  
www.Amperite.com

## DFV Series Flasher



- ... Solid state analog flasher circuitry
- ... DPDT (2 form C) isolated 10 ampere relay contacts
- ... Variable flash rate: standard flash rate range 10-120 F.P.M.
- ... Single knob adjustment on top of unit
- ... 12V to 120V input voltage available - both AC & DC models
- ... UL File #E96739 (M)
- ... CSA File #LR62586

### Timing Mode:

On/off adjustable recycling flasher. The flash rate is adjustable from 10 to 120 flashes per minute (FPM). Custom rates are available within ranges between minimum of 1 FPM & maximum of 240 FPM. Duty cycle is 50%. Flash rate is adjustable by means of a knob potentiometer on top of the unit.

### Timing diagram:



### Contact Information:

Arrangement: 2 form C (DPDT) - Diagram C

Contact Material: Silver - Cadmium Oxide

Rating (Resistive):

10A @ 240V AC Resistive

15A @ 30V DC Resistive

15A @ 120V AC Resistive

1/3 HP @ 120V AC

1/2 HP @ 250V AC

Expected Life @ 25°C :

10 Million operations, Mechanical

100,000 operations minimum at rated loads

### Environmental Information:

Temperature Range:

Storage: -60°C to +105°C (-76°F to +221°F)



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Operating:  $-45^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-49^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$ )

### Mechanical Information:

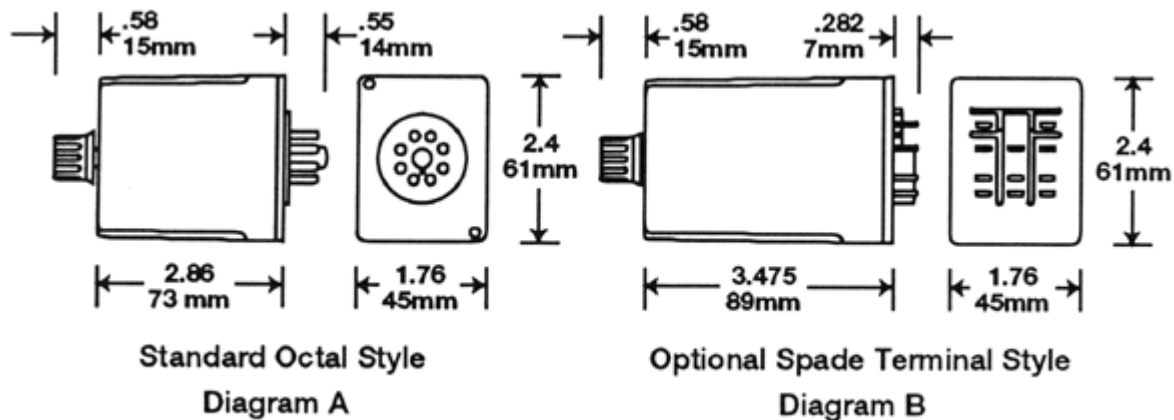
Termination: 8 pin Octal Style Plug or 11 pin spade terminals (Diagram C & D).

Enclosure: White plastic case with a dial scale for knob adjustment, reference only.

LDFV version has a black case.

Weight: 4 oz (114g) approx.

### Outline Dimensions:



### Timing Specifications:

Flash Rate - Adjustable: Standard - 10 to 120 flashes per minute (FPM). Custom rates are available within ranges between minimum of 1 FPM and a maximum of 240 FPM.

Timing Adjustment: Knob adjustable potentiometer.

### Initial Dielectric Strength:

Between open contacts: 1000V RMS,

Between adjacent contacts: 1500V RMS,

Between contacts & coil: 1500V RMS

### Input Information:

Voltage: AC units- 12V, 24V, and 120V; DC units- 12V, 24V, 48V and 110V. Other voltages are available.

Power Requirement: AC units: 3 VA or less; DC units: 3 Watts or less

Transient Protection: 1 JOULE MOV

Polarity Protection: On DC units - Yes



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**Input Voltages & Limits:**

| Nominal | Minimum | Maximum |
|---------|---------|---------|
| 12V AC  | 10V     | 14V     |
| 24V AC  | 20V     | 28V     |
| 120V AC | 105V    | 130V    |
| 12V DC  | 11V     | 14V     |
| 24V DC  | 20V     | 32V     |
| 48V DC  | 41V     | 55V     |
| 110V DC | 95V     | 125V    |

**Wiring Diagrams:**

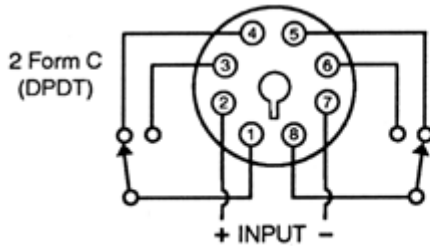


Diagram C

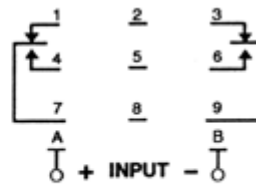


Diagram D




**Ordering Information:**

Definition of a part number for the Amperite DFV Series Adjustable Flasher.

Example:

120 A E 10 -120 L DFV  
 ↑ ↑ ↑ ↑ ↑ ↑ ↑  
 A B C D E F G

**A:** Denotes nominal input voltage. Voltages Available: 12, 24 & 120V AC; 12, 24, 48 &

|                                                                                                                                                     |                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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110V DC. **Custom Voltages are available.**

**B:** Denotes type of input current required for operation:

A = AC - Alternating Current,

D = DC - Direct Current

**C:** Denotes flasher configuration.

**D & E:** Denotes range of knob adjustability for flash rate where:

D = Minimum number of flashes per minute (FPM).

E = Maximum number of flashes per minute (FPM).

Note: Standard rate is from 10 to 120 FPM. Custom rates are available within ranges between minimum of 1 FPM and a maximum of 240 FPM.

**F:** Enter "L" if optional 11-pin spade terminals are required (Diagrams B & D).

**G:** Denotes 10A DPDT (2 form C) adjustable flasher - DFV Series.

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